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ABSTRACTS OF THE MINUTES OF THE PROCEEDINGS
OF THE ACADEMY OF NATURAL SCIENCES
OF PHILADELPHIA

1922

January 17.

The President, JOHN CADWALADER, A. M., LL.D., in the Chair.
Twenty-six persons present.

The deaths of William West Frazier, and Mrs. Amelia D. Hockley, members, were announced.

Mr. Henry W. Fowler made a communication entitled: "Fishes of the Southern Alleghanies" (No abstract).

The Council reported the appointment by the President of the following Committees for 1923: On Finance,—Effingham B. Morris, *Chairman*, George L. Harrison, Jr., Walter Horstmann, Morgan Hebard, and George Vaux, Jr. On Publications,—Henry Skinner, *Chairman*, Witmer Stone, Henry A. Pilsbry, William J. Fox, and Milton J. Greenman. On Library,—Henry Tucker, Frank J. Keeley, T. Chalkley Palmer, Witmer Stone, *Chairman*, and Spencer Trotter. On Instruction,—Henry Skinner, *Chairman*, Charles Morris, George Spencer Morris, Henry A. Pilsbry, and James A. G. Rehn. And the following Special Committees: On Policy,—Edwin G. Conklin, *Chairman*, Richard A. F. Penrose, Jr., Milton J. Greenman, J. Percy Moore, George Vaux, Jr., G. E. de Schweinitz, Witmer Stone, Effingham B. Morris and George L. Harrison, Jr. On Hayden Memorial Medal Award,—Richard A. F. Penrose, Jr., *Chairman*, Edgar T. Wherry, Henry Fairfield Osborn, Charles D. Walcott, and John M. Clarke. On By-Laws,—Spencer Trotter, *Chairman*, Charles B. Penrose, and Walter Horstmann. On Nomination of Correspondents,—Henry Skinner, *Chairman*, Witmer Stone, and J. Percy Moore.

Mrs. Samuel F. Houston, Mrs. Matilda C. Markoe, Mrs. Harry F. West, Mrs. S. P. Wetherill, Jr., Miss Helen Brooks Shriver, Roland L. Taylor, and Henry S. Williams, were elected members. Levi W. Mengel, Associate Member. George Vaux [X], and Henry James Vaux, Junior Members.

February 21.

The President, JOHN CADWALADER, A. M., LL.D., in the Chair.
Fifty-nine persons present.

The deaths of F. A. Hassler, William Welsh Welsh, and George Roberts, were announced.

Dr. Edwin G. Conklin made a communication entitled: "The Biological Effects of Immigration." (No abstract).

Theodore W. Bouchelle, Charles Fearon, Alfred Jordan, Joseph Y. Jeanes, Henry Leffman, Charles P. Perkins, Thomas C. Potts, Evan Randolph, L. C. Mills, and George C. Thayer, were elected members.

The Publication Committee reported the receipt of the following papers for the Proceedings:

"The Scrophulariaceae of Cuba," by Francis W. Pennell.

"A New Owl from the Bridger Formation," by Alexander Wetmore.

"Notes on the Radula of the Neritidae," by H. Burrington Baker.

"Osteology of the Tegu," by A. M. Reese.

"Notes on the Crocodilia of British Guiana," by A. M. Reese.

March 21.

The President, JOHN CADWALADER, A.M., LL.D., in the Chair.
Twenty-nine persons present.

Mr. Samuel G. Gordon made a communication entitled: "A Mineralogist in the Andes" (No abstract).

Miss Sophia Cadwalader, Miss M. H. Cadwalader, Miss Eleanor Tatum Long, Samuel N. Lewis, H. Pearce Lakin, and Walter Mendelson, were elected members.

April 18.

The President, JOHN CADWALADER, A.M., LL.D., in the Chair.
Forty-two persons present.

The death of George Spencer Morris, a member, was announced.

Dr. C. Montague Cooke, made a communication entitled: "Palmyra Island, a Pacific Coral Atoll." (No abstract).

William Henry Skinner, Frank J. Psota, and John P. Carter, were elected members.

June 20.

Adjourned meeting from April 18, 1922.

The President, JOHN CADWALADER, A.M., LL.D., in the Chair.
Eighteen members present.

The deaths of James S. Whitney, James E. Lennon, Joseph Trimble Rothrock, and Louis H. Eisenlohr, were announced.

The following new members were elected: Francis Heed Adler, Francis O. Allen, Jr., Joshua L. Baily, Jr., John Bancroft, Samuel H. Barker, John Hampton Barnes, Leonard T. Beale, Stanley Bright, Joseph H. Bromley, Carolus M. Broomall, William Findlay Brown, Orville H. Bullitt, Miss Martha Bunting, Daniel H. Carstairs, Miss M. E. Converse, Henry B. Coxe, Robert M. Coyle, Theodore W. Cramp, James H. R. Cromwell, Samuel M. Curwen, William D. Disston, Franklin D'Olier, Helen Kitchen D'Olier, Irene DuPont, William M. Elkins, William Struthers Ellis, George K. Erben, Thomas T. Firth, N. T. Folwell, Frank B. Foster, Mrs. L. Webster Fox, Samuel M. Freeman, Mrs. H. H. Furness, Jr., Arthur Howell Gerhard, Frank T. Griswold, S. R. Guggenheim, Mary Ingalls Harrison, William H. Hart, R. Wistar Harvey, W. E. Hering, Charles E. Hires, George Gowen Hood, John J. Howard, Mrs. H. M. Howe, Miss A. P. Hutchinson, Daniel L. Hutchinson, Jr., Edward M. Jefferys, Edward Hine Johnson, Livingston E. Jones, Francis Fisher Kane, Archibald C. Knowles, Mrs. Arthur H. Lea, Elisha Lee, John C. Lowry, Thomas McCrae, Mrs. George D. McCreary, Mrs. Charles J. McIlvain, Jr., Walter S. McInnes, Charles Adsit Magruder, John C. Martin, Jules E. Mastbaum, Matthew F. Maury, Mrs. Richard Waln Meirs, Francis F. Milne, Jr., Samuel W. Morris, Mrs. Samuel W. Morris, John S. Newbold, C. Edgar Ogden, George R. Packard, T. H. Hoge Patterson, George Wharton Pepper, T. Morris Perot, Jr., Byron J. Pickering, George D. Porter, Mrs. Francis L. Potts, Thomas Harris Powers, Thomas deQ. Richardson, George S. Robbins, Frank C. Roberts, J. Clifford Rosengarten, Mrs. Edgar Scott, Edward A. Selliez, T. Wilson Sharpless, Charles K. Shaw, Mrs. George C. Thomas, M. Carey Thomas, John B. Townsend, Samuel Tobias Wagner, Alfred S. Weill, William H. Wetherill, Miss Marion B. Wood, Alexander S. Gross.

Junior Members: Edward P. Bromley, Henry S. Bromley, Jr., Anne Conrad D'Olier, Franklin D'Olier, Jr., Helen Kitchen D'Olier (Jr.), John M. Fisher, Jr.

November 21.

The President, JOHN CADWALADER, A.M., LL.D., in the Chair.
Ninety-nine persons present.

The deaths of Miss Anna W. Pearsell, Charles Morris, and Thomas DeWitt Cuyler, were announced.

Mr. Wharton Huber made a communication entitled: "The Academy Nicaraguan Expedition of 1922" (No abstract.)

The following new members were elected: Frank Battles,* Charles Biddle, Charles Day, Miss Mary A. Dobbins, Stanley Folz, Mrs. John Fritsche, John T. Garman, Frank Hart, William E. Helme, Fred. B. Hurlburt, Miss H. F. Merrick, L. I. Morris, Stanley P. Reimann, William L. Saunders, 2nd., Monroe B. Snyder, J. Stogdell Stokes, Robert J. Titherington, Carroll S. Tyson, Jr., Mrs. Carroll S. Tyson, Jr., F. King Wainwright, Clarence A. Warden, Edward E. Wildman, De Forest P. Willard, Joseph Lapsley Wilson.

Nomination for Officers, Councillors, and members of the Committee on Accounts for the ensuing year were made.

The Publication Committee reported the receipt of the following papers for the Proceedings:

"Studies in Malayan, Melanesian, and Australian Tettigoniidae (Orthoptera)" by Morgan Hebard.

"Crystallographic Notes on Willemite, Celestite, and Calcite from Franklin, New Jersey," by Samuel G. Gordon.

"Keeleyite, a New Lead Sulantimonite from Oruro, Bolivia," by Samuel G. Gordon.

"Fishes from Nicaragua," by Henry W. Fowler.

"Fishes from Madeira," by Henry W. Fowler.

"Mollusca of the Southwestern States, XI," by Henry A. Pilsbry.

December 19, 1922.

The Vice-President, HENRY SKINNER, M.D., Sc.D., in the Chair.
Seventeen persons present.

* Since deceased

Officers, Councillors, and members of the Committee on Accounts were elected for the ensuing year as follows:

PRESIDENT.....Richard A. F. Penrose, Ph.D.

VICE-PRESIDENTS.....Edwin G. Conklin, Ph.D.

Henry Skinner, M.D., Sc.D.

RECORDING SECRETARY.....James A. G. Rehn.

CORRESPONDING SECRETARY.....J. Percy Moore, Ph.D.

TREASURER.....George Vaux, Jr.

LIBRARIAN.....Spencer Trotter, M.D.

CURATORS.....Witmer Stone, A.M., Sc.D.

Henry A. Pilsbry, Sc.D.

George L. Harrison, Jr.

T. Chalkely Palmer.

COUNCILLORS TO SERVE THREE

Years.....John Cadwalader, A.M., LL.D.

Robert G. LeConte, M.D.

Milton J. Greenman, M.D.

Morgan Hebard.

COUNCILLOR TO FILL TERM OF

CHARLES MORRIS (DECEASED)..Henry Tucker, M.D.

COMMITTEE ON ACCOUNTS.....Roswell C. Williams, Jr.

Samuel N. Rhoads.

John G. Rothermel.

Thomas S. Stewart, M.D.

Walter Horstmann.

Annual Reports were received from the Recording Secretary, Corresponding Secretary, Librarian, Treasurer, auditors of the Treasurer's accounts, Treasurer of the "Manual of Conchology," Curator of the William S. Vaux Collections, and from the following sections: Biological and Microscopical, Entomological, and Mineralogical and Geological. The Ornithological Section reported progress, and the dissolution of the Botanical Section was reported.

The report of the Committee on the Hayden Memorial Geological Award recommending Professor Alfred Lacroix, President of the Société Géologique de France as the recipient of the gold medal for 1923, was approved unanimously.

ALFRED LACROIX was born February 4, 1863, at Mâcon, province of Saône-et-Loire, France. He was educated at the Lycée of Mâcon, at the Sorbonne, and at the Collège de France, attaining in 1889 the degree of Docteur ès sciences. In 1887, he became

Préparateur au Collège de France; in 1893, Professeur at the Muséum d'Histoire Naturelle, and in 1896 Director of the Laboratoire de Minéralogie, École des Hautes Études. In 1892, and again in 1903, he was made Lauréat de l'Institut; and in 1904 was elected a member of the Académie des Sciences, section de Minéralogie. Ten years later he became Secrétaire perpetual of the section of Physics of the Académie. He has also been created Chevalier de la Légion d'Honneur. He is a member of numerous learned societies in France and elsewhere, and has headed many scientific missions in all parts of the world. His last visit to this continent was in 1913, when he attended the meetings of the International Geological Congress in Canada, and subsequently visited many colleagues in the United States. He also took an active part in the International Geological Congress held in Belgium in 1922, where his eminence in his science was universally recognized.

At the early age of 25 he collaborated with Professor A. Michel-Lévy in the preparation of an important book, *Les Minéraux des Roches*, (334 pages, Paris, 1888). The first of the five volumes of his great work, *Minéralogie de la France et ses Colonies*, appeared in 1893; the fifth and final one in 1902; and recently this has been supplemented by an elaborate *Minéralogie de Madagascar* (1922). Other important volumes from his pen are *Les enclaves des roches volcaniques* (1893), and *La Montagne Pelée et ses éruptions* (1904).

In addition to these and other books he has contributed numerous papers to various scientific journals and proceedings of scientific societies, many of them announcing important discoveries in geology, petrology, and mineralogy.

These include the proposal of about forty-seven mineral names; the reinvestigation and characterization of a large number of incompletely described species. The mineral "Lacroixite" was named in honor of Professor Lacroix by F. Slavik in 1914.

Over forty rock minerals and other petrographic terms are due to Professor Lacroix; and he has made extensive studies of the phenomena of contact metamorphism, endomorphic metamorphism, and numerous other similar phenomena.

A resolution of appreciation of the services of Mr. John Cadwalader, the retiring President, was unanimously adopted by a rising vote.